PART-I
IQ (MENTAL ABILITY)

This section contains **20 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

1. Which of the following words will come second in the English dictionary?
(1) Money   (2) Marry   (3) Margin   (4) Month

2. Choose the word which is least like the other words.
(1) Sun   (2) Moon   (3) Mars   (4) Universe

3. If Ram is facing South-East, he turn through 180° clockwise and then 90° anticlockwise. In which direction is he facing now.
(1) South-West   (2) South-East   (3) North-West   (4) North-East

4. Insert the missing number in the given series :
97, ?, 59, 43, 29, 17
(1) 74   (2) 79   (3) 78   (4) 77

5. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to the group ?
(1) Rose   (2) Marigold   (3) Lilly   (4) Apple

6. In English alphabet series which letter is 8th to the right of 2nd from left?
(1) O   (2) J   (3) R   (4) L

7. A man walks 10 m towards South then turning to his right he walks 15 m. Then turning to his left he walks 10 m. Again turning to his left he walks 15 m. How far is he from starting position?
(1) 30 m   (2) 20 m   (3) 80 m   (4) 60 m

8. In the given question four alternatives are given which follow a word. You have to select one alternative which exactly matches with the mirror image of the word in question.
FANTASY
(1) YƧATИAꟻ   (2) YSATNAꟻ   (3) ꟻAИTAƧY   (4) YSATNAF

9. In a certain code language, GERMINATION is written as IMGRENNOAIT. How is COORDINATER written in the code?
(1) RETANIDROOC   (2) DRRICOOENTA
(3) DRIRCOOENTA   (4) DRCOOIRENTA

10. A clock is showing 9 : 00 P.M. If hour is pointing towards East then minute hand is pointing towards which direction?
(1) South   (2) North   (3) West   (4) East

11. Choose the correct mirror image of given combination.
56p7uR
(1) Ru7P65   (2) u56p7u   (3) Яu7q8ƨ   (4) Яu7P6ƨ

12. Select the combination of numbers so that the letters arranged accordingly will form a meaningful word :
R U S T A
1 2 3 4 5
(1) 1, 5, 4, 2, 3   (2) 5, 3, 4, 1, 2   (3) 3, 2, 4, 5, 1   (4) 3, 2, 1, 5, 4

13. Following question consists of four figures marked A, B, C and D called problem figures. Following by four other figures marked 1, 2, 3 and 4 called the answer figures. Select a figure from amongst the answer figures which will continue the same series.
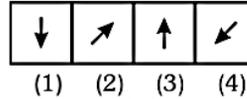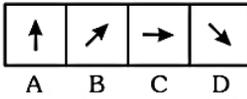
14. Choose the correct water image of figure (X) :
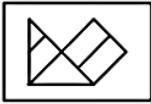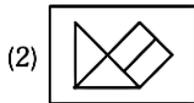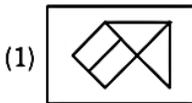
15. How many 2's are there which are preceded by 3 ?
5 9 3 2 1 7 4 2 6 9 7 4 6 1 3 2 8 7 4 1 3 8 3 4 7 2 5 6 7 7 4 3 9 5 8 2 0 1 8 7 4 6 3
(1) Four   (2) Five   (3) Three   (4) Two

16. Following question consists of five figures marked A, B, C, D and E called problem figures. Following by four other figures marked 1, 2, 3 and 4 called the answer figures. Select a figure from amongst the answer figures which will complete the given series.

Problem figure   *Answer figure*

A	?	I	O	U
A	B	C	D	E

P	F	E	Q
(1)	(2)	(3)	(4)
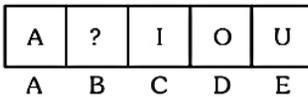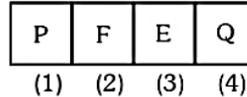
17. Choose the venn diagram which best illustrates the three given classes :
Table , Funiture, Potato
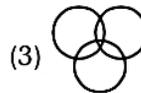
18. Choose the correct water image of given combination : ARJ1487
(1) ∀ꓤ� (2) ∀ꓤ1Iꓞ8ㄣ (3) ∀ꓤ1ㄣ8ㄥ (4) ∀ꓤ11France

19. In the given question, arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the alternatives provided below question.
1. Funeral   2. Birth   3. Education   4. Marriage   5. Death
(1) 4, 5, 3, 1, 2   (2) 2, 3, 4, 5, 1
(3) 1, 5, 4, 2, 3   (4) 1, 3, 4, 5, 2

20. Choose the venn diagram which best illustrates the three given classes :
Whale, Fishes, Crocodile
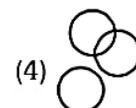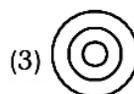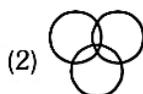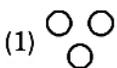
PART-II
SECTION-A : PHYSICS

This section contains **12 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

21. Convert 10 m into cm
(1) 1 cm   (2) 10 cm   (3) 0.01 cm   (4) 1000 cm

22. The pollution caused by gases like carbon monoxide, sulphur dioxide etc is called
(1) Water pollution   (2) Air pollution
(3) Soil pollution   (4) Noise pollution

23. SI unit of mass is -
(1) Gram   (2) Milligram   (3) Kilogram   (4) None of these

24. The movement of earth on its axis is called–
(1) Rotation   (2) Revolution   (3) Volcano   (4) None of these

25. 400 m is _____.
(1) 40 km   (2) 0.4 km   (3) 400 km   (4) 4 km

26. The sudden shaking of earth's crust is called
(1) Famine   (2) Earthquake   (3) Rain   (4) None of these

27. Ship floats on water due to -
(1) Buoyancy   (2) Sound   (3) Magic   (4) None of these

28. The outer hard surface of earth is called
(1) Core   (2) Mantle   (3) Crust   (4) None of these

29. Which is correct order?
(1) 1 km > 1 mm > 1 cm > 1 m   (2) 1 km > 1 m > 1 cm > 1 mm
(3) 1 m > 1 km > 1 cm > 1 mm   (4) 1 cm > 1 m > 1 km > 1 mm

30. Knife is an example:
(1) Screw   (2) Wheel and axle   (3) Wedge   (4) None of these

31. The change in season is due to -
(1) Rotation of earth   (2) Revolution of earth
(3) Gravity of earth   (4) None of these

32. Energy of moving wind or flowing water is changed into _____ at electricity generation stations.
(1) Electrical energy   (2) Chemical energy
(3) Solar energy   (4) None of these

SECTION-B : CHEMISTRY

This section contains **11 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

33. Matter consists of tiny particles termed as
(1) Matter   (2) Atoms   (3) Ions   (4) None of the these

34. Which of the following is an example of solid?
(1) Orange juice   (2) Book   (3) Air   (4) Cold drink

35. Which of the following are converted into fragments because of winds, rains, ice and even sunlight?
(1) Stones   (2) Sand   (3) Rocks   (4) Pebbles

36. One _____ of water contains two hydrogen and one oxygen atoms.
(1) Molecule   (2) Element   (3) Compound   (4) Drop

37. Least intermolecular forces are found in
(1) Solids   (2) Liquids   (3) Gases   (4) Fluids

38. Which of the following are not easily compressible?
(1) Block of wood   (2) Iron nails   (3) Wall   (4) All of these

39. The process of adding chlorine in water to kill germs is
(1) Chlorination   (2) Decantation   (3) Distillation   (4) Sublimation

40. A change in matter that does not form a different kind of matter is called a _____ .
(1) Chemical change   (2) Physical change   (3) Both (1) and (2)   (4) None of these

41. Hot, liquid rocks spews out of an erupting volcano is called
(1) Ash   (2) Lava   (3) Carbon dioxide   (4) None of these

42. Layers of air surrounding the earth forms _____.
(1) The universe   (2) Space   (3) The atmosphere   (4) A galaxy

43. Which of the following is correctly arranged in order of increasing of particle size?
(1) Silt, Sand, Gravel, Clay   (2) Clay, silt, sand, gravel
(3) Silt, sand, clay, gravel   (4) Silt, clay, sand, gravel

SECTION-C : BIOLOGY

This section contains **12 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

44. An adaptation is
(1) A place where an organism lives
(2) A characteristic that improves an organism's ability to survive
(3) A stage in an animal's life cycle
(4) None of these

45. Identify 'P' in the figure given below
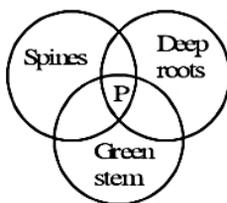
(1) Pine tree   (2) Hydrilla   (3) Cactus   (4) Neem

46. Wide flat green portion of the leaf is called
(1) Apex   (2) Petiole   (3) Midrib   (4) Lamina

47. Which is not an example of an animal's behavioural adaptation?
(1) Migration   (2) Mimicry   (3) Playing dead   (4) Claws

48. Breathing roots are found in
(1) Mangroove plant   (2) Sugarcane   (3) Water Hyacinth   (4) Deodar

49. What do leaves release in the atmosphere during photosynthesis?
(1) Hydrogen   (2) Carbon dioxide   (3) Oxygen   (4) Nitrogen

50. Which of the following plant does not have tap root system?
(1) Mango   (2) Sugar cane   (3) Radish   (4) Neem

51. Largest organ inside human body is
(1) Kidney   (2) Liver   (3) Lung   (4) Pancreas

52. Which of the following is not an edible stem?
(1) Ginger   (2) Sweet Potato   (3) Potato   (4) Turmeric

53. Fertilization of the egg occurs inside
(1) Ovary of stamen   (2) Ovary of carpel   (3) Sepals   (4) Group of petals

54. The bone(s) that protects the lungs are called
(1) Cranium   (2) Tibia   (3) Patella   (4) Ribs

55. Which of the following shows the reproduction process in Bryophyllum ?
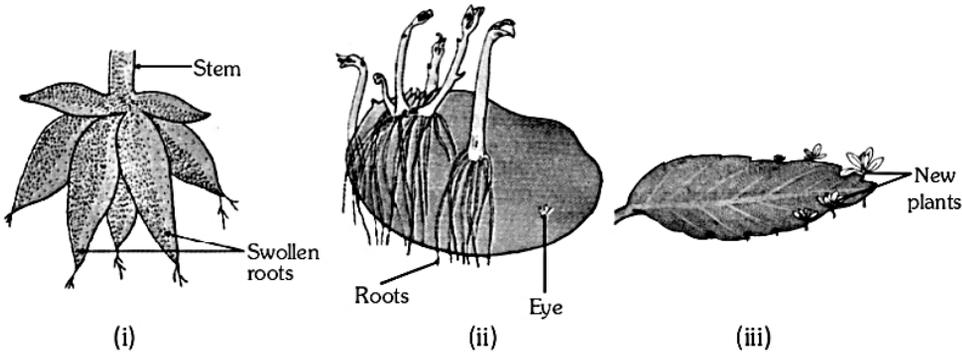
(i)   (ii)   (iii)
(1) Only (iii)   (2) Only (ii)   (3) Both (i) & (ii)   (4) Both (ii) & (iii)

SECTION-D : MATHEMATICS

This section contains **25 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

56. Find the area of a square of side 1.2 metres.
(1) 14.4 Sq. m   (2) 1.44 Sq. m   (3) 0.144 Sq. m   (4) None of these

57. 9118 is divisible by
(1) 2 and 47   (2) 2 and 11   (3) 2, 3 and 11   (4) 2, 3 and 6

58. Sanjay weights 60 kilograms. Sonu is 10 kilogram lighter than Sanjay. How much does they weigh together?
(1) 110 kg   (2) 100 kg   (3) 120 kg   (4) 130 kg

59. The perimeter of a square is 44 cm. Its area is
(1) 121 Sq. cm   (2) 111 Sq. cm   (3) 100 Sq. cm   (4) 110 Sq. cm

60. The difference between the place value and face value of 4 in 356945 is
(1) 36   (2) 0   (3) 34   (4) 44

61. Which of the following pair is co-prime ?
(1) 23, 115   (2) 29, 31   (3) 17, 51   (4) 18, 90

62. The chair is 4.4 kilograms. How many grams does it weigh?
(1) 44 grams   (2) 440 grams   (3) 4400 grams   (4) 44000 grams

63. The product of the successor and predecessor of 101 is
(1) 10200   (2) 9980   (3) 1099   (4) 9700

64. A triangle with one right angle and two acute angles is called
(1) Right angled triangle   (2) Acute-angled triangle
(3) Obtuse angled triangle   (4) None of these

65. Which one of the following numbers is divisible by 6 ?
(1) 27310   (2) 27210   (3) 73545   (4) 45635

66. If an angle measures 290°, then it is a/an
(1) Right angle   (2) Obtuse angle   (3) Reflex angle   (4) Straight angle

67. A room is 2.5 m long and 5.5 m wide. Its area is
(1) 14.75 Sq. m   (2) 12.75 Sq. m   (3) 137.5 Sq. m   (4) 13.75 Sq. m

68. Which is equivalent to 11 meters ?
(1) 0.11 centimeters   (2) 1.1 centimeters   (3) 110 centimeters   (4) 1100 centimeters

69. Given that A = 908010, B = 908001, C = 908100, D = 9080101, then which of the following option is true ?
(1) C > D > A > B   (2) D > C > B > A   (3) B < A < C < D   (4) None of these

70. How many triangles can be seen in this drawing?
(1) 3
(2) 5
(3) 6
(4) 7
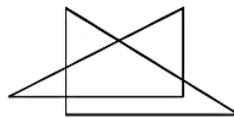
71. Number of factors of 36 are
(1) 9   (2) 8   (3) 10   (4) 2

72. The number of primes between 80 and 90 is
(1) 0   (2) 1   (3) 2   (4) 3

73. What is one-fourth of a right angle?
(1) 22°   (2) 22.5°   (3) 45°   (4) 60°

74. How many sides does a quadrilateral have ?
(1) 3   (2) 4   (3) 5   (4) 6

75. Find the perimeter of the given figure.
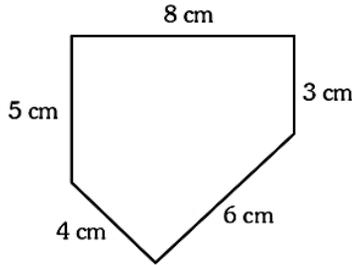
(1) 26 cm   (2) 27 cm   (3) 30 cm   (4) 32 cm

76. I can be subtracted from
(1) V and L   (2) V and X   (3) X and C   (4) V, X and C

77. A right triangle has an angle measuring 48°. What is the degree measure of another angle of this triangle?
(1) 42°   (2) 82°   (3) 104°   (4) 142°

78. Name this shape
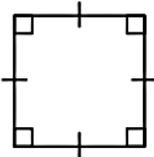
(1) Circle   (2) Square   (3) Star   (4) Diamond

79. 5 metres and 4 centimetres is equal to _____ metres?
(1) 54 m   (2) 5.4 m   (3) 5.004 m   (4) 5.04 m

80. What type of angle is shown below ?
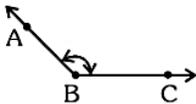
(1) Acute angle   (2) Obtuse angle   (3) Right angle   (4) Straight angle

Space for rough work